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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

## QC ABSTRACT

**NAME OF WORK:** Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division.

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | Materials | | | | |
| 1 | Cement | Fineness by dry sieving | One Test | | 1 | 1 |
| | | Finess by Air permeablity method | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Standard Consistency | One Test | | 1 | 1 |
| | | Initial Setting time | One Test | | 1 | 1 |
| | | Final Setting time | One Test | | 1 | 1 |
| | | Soundness (Le Chatelier's Method) | One Test | | 1 | 1 |
| | | Compressive Strength | One Test | | 1 | 1 |
| 2 | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| 3 | Coarse aggregate(20 mm down size) | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Bulk Density(Loose) | One Test | | 1 | 1 |
| | | Bulk Density(Compacted) | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Aggregate crushing Value | One Test | | 1 | 1 |
| | | Aggregate Impact Value | One Test | | 1 | 1 |
| 4 | Fine aggregate | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Specific Gravity | One Test | | 1 | 1 |
| | | Material finer than 75 micron | One Test | | 1 | 1 |
| 5 | Precast (100mm) | Core Compressive Strength | One Test | | 1 | 1 |
| | | Corrected Cylinder Compressive Strength | One Test | | 1 | 1 |
| | | Equivalent Cube Compressive Strength | One Test | | 1 | 1 |
| 6 | Cement Concrete Pavemet (M30) | Compressive Strength(7days and 28days) | 3 set /16-30 cum | 30 | 6 | 6 |

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Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 04-02-23

| | | |
|---|---|---|
| **Lab ID** | : | CP-2023-03-06-03 |
| **Customer** | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| **Agency** | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| **Customer's Reference** | : | BBMP/EE/YNK D/EPMT-12/W.O/87/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-02-23 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 269:2015 Ordinary Portland cement Specification ,<br>IS 4031 (Part 4,5):1988<br>IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 02-02-23 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| SLNo. | Physical properties | Results | Requirement as per IS 269:2015 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.55 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 287.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.12 | – |
| 4 | Standard Consistency (%) | 28.5% | Not specified |
| 5 | Initial Setting time | 155 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 260 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2mm | Not more than 10 mm |

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-06-03** **Date: 02-03-23** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| **Agency** | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-02-23 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 269.2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988<br>IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 02-02-23 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| SL No. | Physical properties | Results | Requirement as per IS 269:2015 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 56.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-06-03** **Date: 04-02-23** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| **Agency** | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-02-23 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 01-02-23 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 318 | 318 | 2.1 | 97.9 | 90-100 |
| 3 | 20 mm | 7441 | 7759 | 51.7 | 48.3 | 30-70 |
| 4 | 10 mm | 5152 | 12911 | 86.1 | 13.9 | 10-35 |
| 5 | 4.75 mm | 1711 | 14622 | 97.5 | 2.5 | 0-5 |
| 6 | Pan | 378 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-06-03** **Date: 04-02-23** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| **Agency** | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-02-23 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 01-02-23 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 318 | 318 | 2.1 | 97.9 | 90-100 |
| 3 | 20 mm | 7441 | 7759 | 51.7 | 48.3 | 30-70 |
| 4 | 10 mm | 5152 | 12911 | 86.1 | 13.9 | 10-35 |
| 5 | 4.75 mm | 1711 | 14622 | 97.5 | 2.5 | 0-5 |
| 6 | Pan | 378 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2023-03-06-03** **Date: 04-02-23**

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 8.1 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 7.5 | |
| 3 | Specific Gravity | 2.61 | – |
| 4 | Bulk Density(Loose) (Kg/l) | 1.38 | – |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.42 | – |
| 6 | Water Absorption(%) | 0.25 | – |

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
**Technical Manager**

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-06-03** **Date: 03-02-23** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| **Agency** | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| **Customer Reference** | : | BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-02-23 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 01-02-23 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 255 | 255 | 5.1 | 94.9 | 90-100 |
| 3 | 10 mm | 2789 | 3044 | 60.9 | 39.1 | 25-55 |
| 4 | 4.75 mm | 1545 | 4589 | 91.8 | 8.2 | 0-10 |
| 5 | Pan | 411 | 5000 | 100 | 0 | _ |



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# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-06-03** **Date: 03-02-23** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| **Agency** | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| **Customer's Reference** | : | BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 01-02-23 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2021<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 01-02-23 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 85 | 85 | 8.5 | 91.5 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 145 | 230 | 23.0 | 77.0 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 165 | 395 | 39.5 | 60.5 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 187 | 582 | 58.2 | 41.8 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 175 | 757 | 75.7 | 24.3 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 155 | 912 | 91.2 | 8.8 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 88 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |
| **Result :The tested Sample Conforms to Grading Zone II** | | | | | | | | | |



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2023-03-06-03** **Date: 03-02-23**

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.5 | – |
| 2 | Specific Gravity | 2.59 | – |
| 3 | Material finer than 75 micron(%) | 8.8 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

• The results obtained are satisfactory as per standard requirements.

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**R RUDRAPRASAD**
Authorized Signatory
**Technical Manager**

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# TEST REPORT OF PRECAST COVER SLAB

Date: 06-02-23

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-06-03 |
| Customer | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division |
| Agency | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| Customer's Reference | : | BBMP/EE/YNK D/EPMT-12/W.O/87/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 02-02-23 |
| Sample Type /Size | : | Precast Cover Slab - 100mm Thick |
| Reference to BIS codes | : | IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete |
| Date of test | : | 02/02/2023 |
| Grade of Slab | : | M20 |

| SL No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 78.51 | 100.48 | 1.116 | 4840 | 92.9 | 19.2 | 17.9 | 22.3 |
| 2 | Cover Slab-2 | 78.49 | 100.52 | 1.122 | 4838 | 94.3 | 19.5 | 18.1 | 22.7 |
| 3 | Cover Slab-3 | 78.50 | 100.51 | 1.118 | 4839 | 96.5 | 19.9 | 18.5 | 23.2 |

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬೃ.ಮ.ಪ. ಬೆಂಗಳೂರು-106

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/02/2023

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-06-03 |
| Customer | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| Agency | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 08-02-23 |
| Customer ID | : | Cement Concrete Pavement |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M30 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |

Date of test : 13/02/2023

| SL No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 06/02/2023 | 13/02/2023 | 150.48 X 149.04 X 149.08 | 22428 | 8.152 | 568.1 | 25.3 | 25.7 |
| 2 | Cement Concrete Pavement | M30 | 06/02/2023 | 13/02/2023 | 149.89 X 151.30 X 151.12 | 22678 | 8.918 | 606.2 | 26.7 | |
| 3 | Cement Concrete Pavement | M30 | 06/02/2023 | 13/02/2023 | 149.03 X 150.38 X 151.17 | 22411 | 8.330 | 559.1 | 24.9 | |

• The results obtained are satisfactory as per standard requirements.

**Note:**

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R RUDRAPRASAD
Authorized Signatory
Technical Manager



****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/03/2023

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-06-03 |
| Customer | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| Agency | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| Customer's Reference | : | BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 08-02-23 |
| Customer ID | : | Cement Concrete Pavement |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M30 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5 |
| Date of test | : | 06/03/2023 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 151.61 X 151.02 X 151.71 | 22896 | 8.933 | 770.1 | 33.6 | 33.2 |
| 2 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 151.71 X 150.07 X 150.19 | 22768 | 8.370 | 743.4 | 32.7 | |
| 3 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 150.52 X 149.38 X 149.53 | 22485 | 8.381 | 746.4 | 33.2 | |

• The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
B RUDRAPRASAD
Authorized Signatory
Technical Manager


****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2023-03-06-03** |
| | | **Date: 13/02/2023** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| **Agency** | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| **Customer's Reference** | : | BBMP/EE/YNK D/EPMT-12/W O/87/2022-23 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-02-23 |
| **Customer ID** | : | Cement Concrete Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 13/02/2023 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 06/02/2023 | 13/02/2023 | 150.08 X 149.47 X 150.71 | 22432 | 8.730 | 572.9 | 25.5 | 25.6 |
| 2 | Cement Concrete Pavement | M30 | 06/02/2023 | 13/02/2023 | 151.99 X 150.25 X 150.97 | 22837 | 8.557 | 611.1 | 26.8 | |
| 3 | Cement Concrete Pavement | M30 | 06/02/2023 | 13/02/2023 | 150.81 X 151.68 X 151.42 | 22875 | 8.369 | 563.6 | 24.6 | |

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R RUDRAPRASAD
Authorized Signatory
Technical Manager



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-03-06-03 Date: 06/03/2023

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division.

Agency : SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/87/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-02-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2023

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 149.66 X 150.81 X 150.65 | 22571 | 8.399 | 766.6 | 34.0 | 33.6 |
| 2 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 151.14 X 150.12 X 149.65 | 22690 | 8.808 | 747.2 | 32.9 | |
| 3 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 150.43 X 149.15 X 149.07 | 22436 | 9.057 | 760.7 | 33.9 | |

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

CIVIL Pro Sig Date BANGALORE

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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| Lab ID | : | CP-2023-03-06-03 Date: 06/03/2023 |
| Customer | : | Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka New Town Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements to roads and drains at JP colony in ward no: 05 Yelahanka New Town Sub Division. |
| Agency | : | SRI PRADEEP S, S/O SREENIVASAYYA, NO 71 HORAMAVU AGARA, BANGALORE-560043 |
| Customer's Reference | : | BBMP/EE/YNK D/EPMT-12/W.O/87/2022-23 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 08-02-23 |
| Customer ID | : | Cement Concrete Pavement |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M30 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5 |
| Date of test | : | 06/03/2023 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 150.06 X 151.65 X 150.93 | 22757 | 9.077 | 772.0 | 33.9 | 33.5 |
| 2 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 150.66 X 150.12 X 151.22 | 22618 | 8.807 | 737.8 | 32.6 | |
| 3 | Cement Concrete Pavement | M30 | 06/02/2023 | 06/03/2023 | 150.16 X 150.95 X 149.87 | 22666 | 8.669 | 767.4 | 33.9 | |

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